


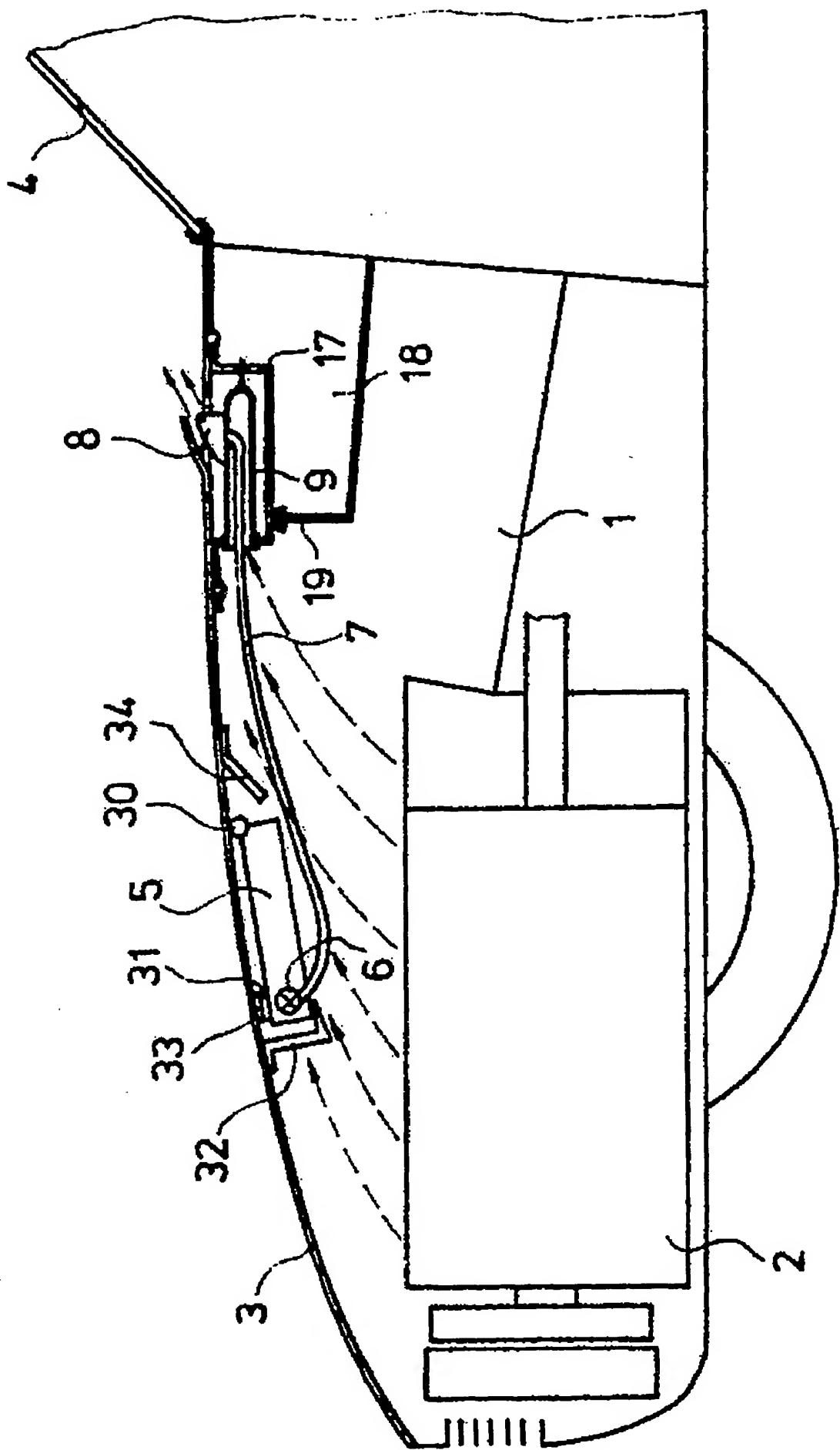
Motor vehicle with a windscreen washing system

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Abstract

In the case of a motor vehicle with front engine 2 and a screen washing system for the windscreen 4, the heat in the engine compartment 1 is used for heating the entire windscreen washing system in order to as far as possible prevent part of this system from freezing. For this purpose, the entire screen washing system is arranged on the underside of the engine bonnet 3, to be precise in a region which is swept by the heat rising in the engine compartment 1. In order that the wash nozzle 8 is particularly intensively heated, the latter is arranged in or on a tubular air-collecting component 9 which is inserted in the cavity between the engine bonnet 3 and a reinforcement plate 17 which is parallel thereto. Laterally next to the nozzle 8, the component 9 has warm air outlet openings with the result that there is a plentiful flow of warm air around the nozzle 8. The warm air is conveyed primarily by means of the vacuum which prevails at the outlet point of the warm air in front of the windscreen 4. In order to achieve a simple filling of the screen wash container 15, the latter is pivotably fastened on the engine bonnet 3 about a horizontal spindle 30 lying transversely with respect to the longitudinal axis of the vehicle and is held in its pivoted-in position by means of a spring catch 32. A stop 34 on the engine bonnet 3 has the effect that the container 5, after the spring catch 32 is released when the engine bonnet 3 is open, can only be swivelled until it is horizontal. 

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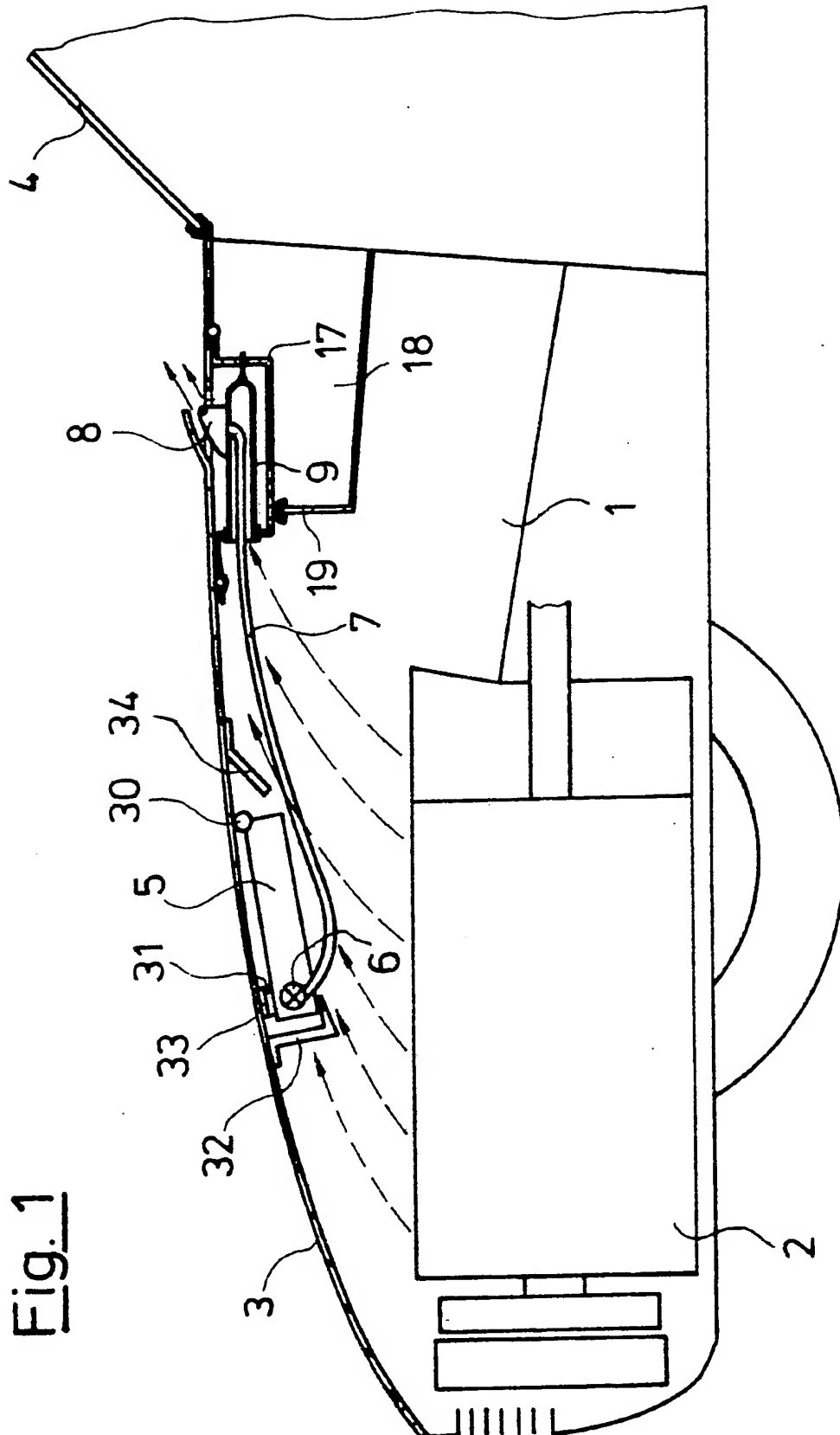


Fig. 1

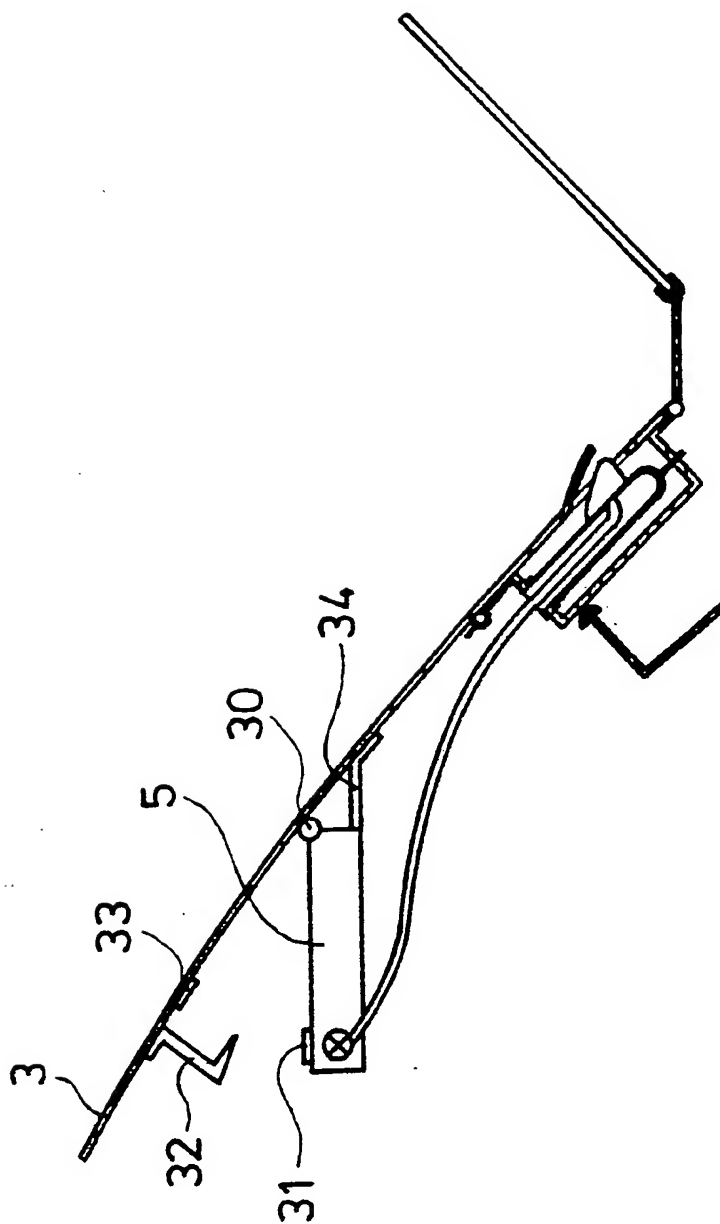
Fig. 2

Fig. 3

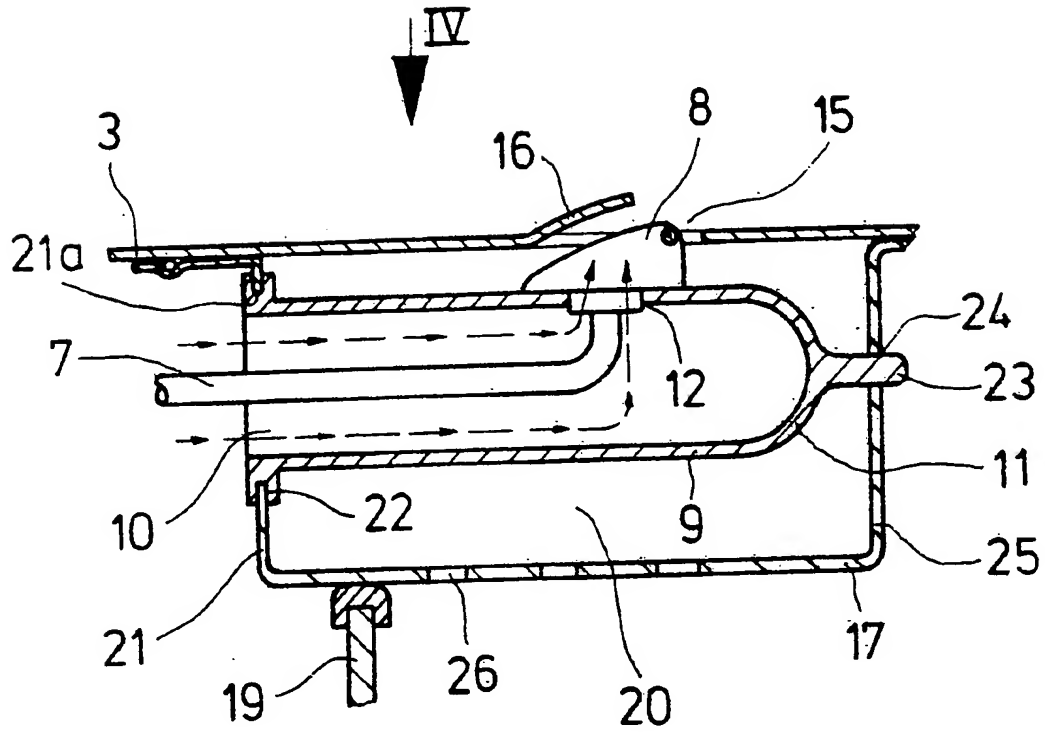


Fig. 4

